

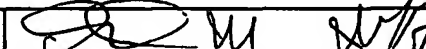


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Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	Continuation—400/604,666— 10/607,247
		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
		Examiner Name	
Sheet 1 of 20	Attorney Docket Number	UTSB 493 CIP CON (5)	

U.S. PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	US Patent Document		Name of Patentee or Applicant of Cited Document	Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		Number	Kind Code* (if known)				
		3,960,150		Hussain, et al.	08-01-1976		
		3,981,303		Higuchi, et al.	09-21-1976		
		3,988,510		Higuchi, et al.	10-19-1976		
		3,993,071		Higuchi, et al.	11-23-1976		
		4,076,800		Marsh, et al.	02-28-1978		
		4,193,845		Kaetsu, et al.	03-18-1980		
		4,194,066		Kaetsu, et al.	03-18-1980		
		4,195,129		Fukul, et al.	03-25-1980		
		4,228,938		Yoshida, et al.	10-07-1980		
		4,272,617		Kaetsu, et al.	08-09-1981		
		4,283,325		Berthet, et al.	08-11-1981		
		4,295,762		Slovinsky	10-20-1981		
		4,298,002		Ronel, et al.	11-03-1981		
		4,321,117		Kaetsu, et al.	03-23-1982		
			4,329,332		Couvreux, et al.	03-11-1982	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T*
		Office.*	Number*	Kind Code* (if known)				
an		PCT	WO 91/10425		Brown University Research Foundation	07-25-1991		
an		PCT	WO 93/09176		Clover Consolidated, Limited	05-13-1993		
an		PCT	WO 93/17669		Board of Regents, The University of Texas System	09-16-1993		
an		PCT	WO 93/21266		Clover Consolidated, Limited	10-28-1993		
an		EP	0 195 304		The Dow Chemical Company	09-24-1986		
an		JP	1-324743		General Director National Circulatory Disease Hospital	08-12-1991		

Examiner Signature		Date Considered	1/23/04
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Complete If Known

Application Number

~~Continuation of FD-302 (2-18-68)~~

10/607, 247

Filing Date

June 25, 2003

First Named Inventor

Jeffrey A. Hubbell

Group Art Unit

Examiner Name

Attorney Docket Number

UTSB 493 CIP CON (5)

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of

20

U.S. PATENT DOCUMENTS

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an		4,352,883	Lim	10-05-1982	
		4,359,483	Kaetsu, et al.	11-16-1982	
		4,378,059	Davis, et al.	03-08-1983	
		4,391,909	Lim	07-05-1983	
		4,409,331	Lim	10-11-1983	
		4,411,754	Kaetsu, et al.	10-25-1983	
		4,434,150	Azad, et al.	02-28-1984	
		4,450,150	Sidman	05-22-1984	
		4,511,478	Nowinski, et al.	04-18-1985	
		4,526,938	Churchill, et al.	07-02-1985	
		4,563,489	Urist	01-07-1986	
		4,590,088	Berthel, et al.	05-20-1986	
		4,605,622	Hasegawa, et al.	08-12-1986	
		4,637,931	Schmitz	01-20-1987	
an		4,647,538	Mosbach, et al.	03-03-1987	

FOREIGN PATENT DOCUMENTS

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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C mplete if Kn wn

Application Number

Continuation of FD-302 (Rev. 11-27-70)

10/607, 247

Filing Date

June 25, 2003

First Named Inventor

Jeffrey A. Hubbell

Group Art Unit

Examiner Name

Attorney Docket Number

UTSB 493 CIP CON (5)

Sheet	3	of	20
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U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	US Patent Document		Name of Patentee or Applicant of Cited Document	Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code* (if known)			
am		4,652,443		Yoshida, et al.	03-24-1987	
		4,663,288		Tsang, et al.	05-05-1987	
		4,689,293		Goosen, et al.	08-25-1987	
		4,744,933		Rha, et al.	05-17-1988	
		4,745,160		Churchill, et al.	05-17-1988	
		4,749,620		Rha, et al.	06-07-1988	
		4,774,178		Egerer, et al.	09-27-1988	
		4,791,061		Sumino, et al.	12-13-1988	
		4,804,691		English, et al.	02-14-1989	
		4,806,355		Goosen, et al.	02-21-1989	
		4,822,535		Ekman, et al.	04-18-1989	
		4,826,945		Cohn, et al.	05-02-1989	
		4,888,413		Dornb	12-19-1989	
		4,889,722		Sheffield, et al.	12-26-1989	
		4,913,903		Sudmann, et al.	04-03-1990	

FOREIGN PATENT DOCUMENTS

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Substitute for form 1449A/PTO		Complete if known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Applicant Number	Continuation of 08/684,838 10/607,247
		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
		Examiner Name	
Sheet 4 of 20	Attorney Docket Number	UTSB 493 CIP CON (5)	

U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	US Patent Document		Name of Patentee or Applicant of Cited Document	Date of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
an		4,916,193		Tang, et al.	04-10-1990	
		4,925,677		Fellen	05-15-1990	
		4,931,279		Bawa, et al.	06-05-1990	
		4,938,763		Dunn, et al.	07-03-1990	
		4,942,035		Churchill, et al.	07-17-1990	
		4,950,596		Cheng, et al.	08-21-1990	
		4,957,744		della Valle, et al.	09-18-1990	
		5,037,656		Pitt, et al.	08-08-1991	
		5,149,416		Osterhoudt, et al.	09-22-1992	
		5,153,002		McMullen	10-08-1992	
		5,160,745		DeLuca, et al.	11-03-1992	
		5,183,690		Carr, et al.	02-02-1993	
		5,185,408		Tang, et al.	02-09-1993	
		5,218,564		Zalipsky, et al.	08-15-1993	
		5,268,182		Brinker, et al.	12-07-1993	

FOREIGN PATENT DOCUMENTS								
Examiner Initials ^a	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
		Office. ²	Number ⁴	Kind Code ⁵ (if known)				
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<p align="center">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</p> <p align="center">(use as many sheets as necessary)</p>		Complete If Known	
		Applicant Number	Continuation of 69/504,886
		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
		Examiner Name	
Sheet 5 of 20	Attorney Docket Number	UTSB 493 CIP CON (5)	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	US Patent Document		Name of Patentee or Applicant of Cited Document	Date of Cited Document MM-DD-YYYY
		Number	Kind Code ² (if known)		
		5,271,961		Mathlowitz, et al.	12-21-1993
		5,278,201		Dunn, et al.	01-11-1994
		5,278,202		Dunn, et al.	01-11-1994
		5,288,495		Batch, et al.	02-15-1994
		5,288,500		Ibsen	02-22-1994
		5,334,640		Desai, et al.	08-02-1994
		5,410,016		Hubbell, et al.	04-25-1995
		5,432,210		Bogan, Jr.	07-11-1995
		5,529,914		Hubbell et al.	06-25-1996
		5,573,934		Hubbell et al.	11-12-1996
		5,834,274		Hubbell et al.	11-10-1998
		5,837,747		Soon-Shiong et al.	11-17-1998
		5,843,743		Hubbell et al.	12-01-1998

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document			Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office ³	Number ³	Kind Code ³ (if known)		

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Applicati n Number	Continuation of 499/884,886 10/607,247
		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
		Examiner Name	
Sheet 6 of 20	Attorney Docket Number	UTSB 493 CIP CON (5)	

OTHER ART - NON PATENT LITERATURE DOCUMENTS			
Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
aw		ALTMAN, et al., "Long-term plasma glucose normalization in experimental diabetic rats with microencapsulated implants of benign human insulinomas," <i>Diabetes</i> 35:625-33 (1986).	
		AMUDESWARI, et al., "Short-term biocompatibility studies of hydrogel-grafted collagen copolymers," <i>J. Biomed. Materials Res.</i> 20:1103-09 (1986).	
		ANDRADE, et al., "Protein Adsorption and Materials Biocompatibility: A Tutorial Review and Suggested Hypothesis," <i>Advances in Polymer Science</i> , published by Springer-Verlag Berlin Heidelberg, pp. 1-63 (1988).	
		BUCK, "Cell Surface Receptors for Extracellular Matrix Molecules," <i>Ann. Rev. Cell Bio.</i> 3:179-205 (1987).	
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		CHUN, et al., "Studies on microbial transformations XIX. use of immobilized cells of Streptomyces Roseochromogenes for the 16 α -hydroxylation of dehydroepiandrosterone," <i>J. Gen. App. Microbiol.</i> 27:505-09 (1981).	
		COHN, et al., "Biodegradable PEO/PLA block copolymer," <i>J. Biomed. Materials Research</i> 22:993-1009 (1988).	
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aw		CROOKS, et al., "Microencapsulation of mammalian cells in a HEMA-MMA copolymer: effects on capsule morphology and permeability," <i>J. of Biomedical Materials Res.</i> 24:1241-62 (1990).	

Examiner's Signature		Date Considered	1/23/96
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Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	Continuation of 4,005,044,836 10/607,247
		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
		Examiner Name	
Sheet	7	of	20
		Attorney Docket Number	UTSB 493 CIP CON (5)

OTHER ART - NON PATENT LITERATURE DOCUMENTS			
Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	7
am		DARQUY, et al., "Immunolocalization of pancreatic alpha cells by microencapsulation - an <i>in vitro</i> study," <i>Diabetologia</i> 28:776-80 (1985).	
		DENISON, Ph.D. Thesis, Massachusetts Institute of Technology (1986).	
		DESAI, et al., "Solution technique to incorporate polyethylene oxide and other water-soluble polymers into surfaces of polymeric biomaterials," <i>Biomaterials</i> 12:144-53 (1991).	
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		DESAI, et al., "Surface physical interpenetrating networks of poly(ethylene terephthalate) and poly(ethylene oxide) with biomedical applications," <i>Macromolecules</i> 25:226-32 (1992).	
		DESAI, et al., "The short-term blood biocompatibility of poly(hydroxyethyl methacrylate-co-methyl methacrylate) in an <i>in vitro</i> flow system measured by the digital videomicroscopy," <i>J. Biomaterial Sci. Polymer Ed.</i> 1(2):123-48 (1989).	
		DIAMOND, et al., "Synergistic effects of interced (Tc7) and heparin in reducing adhesion formation in the rabbit uterine horn model," <i>Fertility and Sterility</i> 55(2):389-94 (1991).	
		DOMB, et al., "Poly(anhydrides). 3. poly(anhydrides) based on aliphatic aromatic diacids," <i>J. Macromolecules</i> 22:3200-04 (1989).	
		DOODY, et al., "Recombinant tissue plasminogen activity reduces adhesion formation in a rabbit uterine horn model," <i>Fertility and Sterility</i> 51(3):509-12 (1989).	
am		DUNN, et al., "Synergistic effect of intraperitoneally administered calcium channel blockade and recombinant tissue plasminogen activator to prevent adhesion formation in an animal model," <i>Am. J. Obstet. and Gynecol.</i> 164(5):1327-30 (1991).	

Examiner's Signature		Date Considered	1/23/00
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	Continuation 109/694,836 10/607,247
		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
		Examiner Name	
Sheet 8 of 20	Attorney Docket Number	UTSB 493 CIP CON (5)	

OTHER ART - NON PATENT LITERATURE DOCUMENTS			
Examiner's Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ¹
aw		DUPUY, et al., "In Situ Polymerization of a Microencapsulating Medium Round Living Cells," <i>J. of Biomedical Materials Res.</i> 22:1061-70 (1988).	
		DUPUY, et al., "Microencapsulation of isolated pituitary cells by polyacrylamide microlatex coagulation on agarose beads," <i>Biomaterials</i> 12:493-495 (1991).	
		EATON, "Dye sensitized photopolymerization," <i>Advances in Photochemistry</i> , 13:427-81 (John Wiley & Sons, Inc. 1986).	
		EPAILLARD, et al., "Plasma Induced Polymerization," <i>J. Applied Polymer Sci.</i> 38:887-88 (1989).	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Applicati n Number	Continuation of 09/094,850- 10/607,247
		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
		Examiner Name	
Sheet 9 of 20	Attorney Docket Number	UTSB 493 CIP CON (5)	

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Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
gm		FUKUI, et al., "Several novel methods for immobilization of enzymes microbial cells and organelles," <i>Biochimie</i> 62:381-86 (1980).	
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gm		GOMBOTZ, et al., "Immobilization of poly(ethylene oxide) on poly(ethylene terephthalate) using a plasma polymerization process," <i>J. of Applied Polymer Science</i> 37:91-107 (1989).	

Examiner's Signature		Date Considered	1/23/06
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		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
		Examiner Name	
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		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
		Examiner Name	
Sheet 11 of 20	Attorney Docket Number	UTSB 493 CIP CON (5)	

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Examiner's Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
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		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
		Examiner Name	
Sheet 12 of 20	Attorney Docket Number	UTSB 493 CIP CON (5)	

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an		KENLEY, et al., "Poly(lactide-co-glycolide) decomposition kinetics <i>in vivo</i> and <i>in vitro</i> ," <i>Macromolecules</i> 20:2398-2403 (1987).	
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an		LACY, et al., "Maintenance of normoglycemia in diabetic mice by subcutaneous xenografts of encapsulated islets," <i>Science</i> 254:1782-84 (1991).	

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		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
		Examiner Name	
Sheet 13 of 20	Attorney Docket Number	UTSB 493 CIP CON (5)	

OTHER ART - NON PATENT LITERATURE DOCUMENTS			
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am		LAMBERTI, et al., "Microencapsulation of mammalian cells in polyacrylates," <i>Applied Biochemistry and Biotechnology</i> 10:101-05 (1984).	
		LEACH, et al., "Reduction of postoperative adhesions in the rat uterine horn model with polyaxamer 407," <i>Am. J. Obstet. Gynecol.</i> 162(5):1317-19 (1990).	
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<i>[Signature]</i>	1/23/06

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	Continuation of 103/634,838 10/607,247
		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
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OTHER ART - NON PATENT LITERATURE DOCUMENTS			
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am		McMAHON, et al., "Feasibility of cellular microencapsulation technology for evaluation of anti-human immunodeficiency virus drug in vivo," <i>J. Nat. Cancer Inst.</i> 82(22):1761-65 (1990).	
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		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
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ow		NOJIRI, et al., "In Vivo protein adsorption onto polymers: A transmission electron microscopic study," <i>Trans. Am. Soc. Artif. Intern. Organs</i> 35:357-61 (1989).	
		O'SHEA, et al., "Encapsulation of rat islets of Langerhans prolongs xenograft survival in diabetic mice," <i>Diabetes</i> 35:943-48 (1986).	
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Examiner's Signature	<i>[Signature]</i>	Date(s) Considered	1/23/06
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	Continuation: 105/894,838 10/607,247
		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
		Examiner Name	
Sheet 18 of 20	Attorney Docket Number	UTSB 493 CIP CON (5)	

OTHER ART - NON PATENT LITERATURE DOCUMENTS			
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du		PITT, et al., "Aliphatic polyesters. I. The degradation of Poly(ϵ -caprolactone) <i>in vivo</i> ," <i>J. Applied Polymer Science</i> 26:3779-87 (1981).	
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<i>[Signature]</i>	1/23/04

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		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
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Sheet 17 of 20	Attorney Docket Number	UTSB 493 CIP CON (5)	

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an		SAWHNEY, et al., "Poly(ethylene oxide)-graft-poly(L-lysine) copolymers to enhance the biocompatibility of poly(L-lysine)-alginate microcapsule membranes," <i>Biomaterials</i> 13(12):863-870 (1992).	
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		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
		Examiner Name	
Sheet 18 of 20	Attorney Docket Number	UTSB 493 CIP CON (5)	

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an		URMAN, et al., "Effect of hyaluronic acid on postoperative intraperitoneal adhesion formation and reformation in the rat model," <i>Fertility and Sterility</i> 56(3):568-70 (1990).	

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		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
		Examiner Name	
Sheet 19 of 20	Attorney Docket Number	UTSB 493 CIP CON (5)	

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am		ZHU, et al., "Preparation characterization and properties of polylactide (PLA)- Poly(ethylene Glycol) (PEG) copolymers: A potential drug carrier," <i>J. Applied Sci.</i> 39:1-9 (1990).	

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	1/23/03

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		Filing Date	June 25, 2003
		First Named Inventor	Jeffrey A. Hubbell
		Group Art Unit	
		Examiner Name	
Sheet 20 of 20	Attorney Docket Number	UTSB 493 CIP CON (5)	

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an		ZHU, et al., "Super microcapsules" (SMC), I. Preparation and Characterization of Star Polyethylene Oxide (PEO)-Polylactide (PLA) Copolymers, J. Polymer Sci.: Part A: Polymer Chemistry 27:2151-59 (1989).	

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